Sta II+00 CR IO Left: A Sediment Basin is not used at this location. The disturbed area within the drainage area is 0.1 Acres. The disturbance activities consist of clearing and grading. BMP's as shown on the erosion control plans will be adequate to control sediment runoff at this location. Land disturbance activities associated with constructing and removing a sediment basin at this location would cause additional adverse impacts.

Sta II+50 CR IO Right: A Sediment Basin is not used at this location. The disturbed area within the drainage area is O.I Acres. The disturbance activities consist of clearing and grading. BMP's as shown on the erosion control plans will be adequate to control sediment runoff at this location. Land disturbance activities associated with constructing and removing a sediment basin at this location would cause additional adverse impacts.

SILT FENCE INSTALLATIONS WITH J-HOOKS AND SPURS

The following table summarizes the required and available sediment storage for every outfall on this project. The Contractor shall provide and maintain the storage volumes for the BMPs specified in this table.

SEDIMENT STORAGE INFORMATION

| | рә | | | Də | age | | Check Dam | | Silt Fence Storage | | INLET SEDIMENT | | pə | | |
|---------------------|--------------------------|------------|---|-------------------------|--|-----------------|--|---|------------------------------|---------------------------------|--|---|-------------------------------------|---------------------------------------|--|
| Drainage Area ID | Drainage are (acreas) | Ouffall ID | Outfall location | Disturbed Ar (acres) | Required Sediment stord Volume (yd3) | # of devices | Storage volume per ditch check (V from below) | Total Storage Volume Provided (CU YD) | # of devices (LIN,FT.) | Sediment Storage Each (LIN.FT.) | Total Storage Volume (CU.YDS.) | | TRAPS Sediment Storage Each (CU YD) | Total Storage Volume (CU YD) | Total Storage Volume Provided Volume (yd3) |
| DRAINAGE AREA #I | 2.35 | BASIN I | DITCH - STA 24+00 TO 30+24 LT OF SR 83 | 1.19 | 79.73 | 20 | <i>4.</i> 25 | 85.00 | | | | | | | 85.00 |
| | | | SHEET FLOW - STA 30+24 TO 32+50 LT OF SR 83 | 0.51 | 34,17 | | | | 226 | 0.345 | 77.97 | | | | 77.97 |
| | | | DITCH - STA 32+50 TO 35+00 LT OF SR 83 | 0.65 | 43.55 | 3 | <i>15.</i> 95 | 47.85 | | | | | | | <i>47,85</i> |
| | 0.64 | BASIN 2 | DITCH - STA 10+25 TO 12+00 RT OF CR 10 | 0.23 | <i>15.41</i> | 5 | 3,// | 15.55 | | | | | | | <i>15.</i> 55 |
| | | DASIN Z | SHEET FLOW - STA 12+00 TO 15+00 RT OF CR 10 | 0.41 | <i>27.4</i> 7 | | | | 300 | 0.345 | 103.50 | | | | 103.50 |
| DRAINAGE AREA #2 | 0.61 | BASIN 3 | DITCH - STA 10+25 TO 11+00 LT OF CR 10 | 0.08 | 5,36 | 3 | 2,22 | 6,66 | | | | | | | 6,66 |
| | | DASIN 3 | SHEET FLOW - STA II+00 TO 15+00 LT OF CR 10 | 0.53 | 35.5/ | | | | 400 | 0.345 | /38.00 | | | | 138.00 |
| | 0.57 | BASIN 4 | DITCH - STA 36+00 TO 44+00 LT OF SR 83 | 0.57 | 38,19 | 6 | 4. 39 | 26.34 | <i>4</i> 5 | <i>0.345</i> | 15.52 | 2 | 0.71 | 1.42 | 43,28 |
| DRAINAGE AREA #3 | コーレムスラー 「 | BASIN 5 | DITCH - STA 44+00 TO 47+50 LT OF SR 83 | 0.47 | <i>31.49</i> | 8 | 3.94 | 31.52 | | | | | | | 31.52 |
| | | BASIN 5 | DITCH - STA 1+00 TO 2+50 LT OF CR 226 | 0,12 | 8.04 | 1 | 41.29 | 41.29 | | | | | | | 41.29 |
| N/A | 2.87 | BASIN 6 | DITCH - STA 24+00 TO 32+50 RT OF SR 83 | 1.77 | 118,59 | 28 | 4. 57 | 127.96 | | | | | | | 127,96 |
| | | BASIN 6 | SHEET FLOW - STA 32+50 TO 35+00 RT OF SR 83 | 1,10 | 73.70 | | | | 250 | 0.345 | 86,25 | | | | 86.25 |
| N/A | 2,23 | BASIN 7 | DITCH - STA 36+00 TO 47+50 RT OF SR 83 | 2.23 | 149.41 | 23 | 6.86 | 157.78 | | | | | | | <i>157.78</i> |

The sediment storage volume listed above is provided by the existing & proposed ditch section.

DERIVATION OF STORAGE CALCULATIONS

$$\frac{ONS}{V (yd^3)} = \frac{1}{81} \left(h \left(\frac{(b_2 + \left(\frac{1}{s_1} + \frac{1}{s_2} \right) (h)) + b_2}{2} \right) \right) \left(\frac{h}{s_0} + x \right)$$

| Segment | Longitudinal slope | Height of ditch check | Front Slope | Back Slope | Ditch Width | Distance the sediment can be stored beyond the ditch check | Storage Volume per ditch check |
|--------------------------------|-----------------------|--------------------------|-------------|-----------------------|---------------------------|--|--------------------------------------|
| | % S ₀ | Ft. | s_l | <i>s</i> ₂ | <i>Ft. b</i> ₂ | <i>Ft.</i> | CY V |
| STA 24+00 TO 30+24 LT OF SR 83 | | 1.30 | 0.25 | 0.50 | 4. 0 | 7.0 | <i>4.</i> 25 |
| STA 32+50 TO 35+00 LT OF SR 83 | 0.008 | I . I5 | 0.25 | 0.50 | 4.0 | 7.0 | <i>15.95</i> |
| STA 10+25 TO 12+00 RT OF CR 10 | 0.147 | 1.60 | 0,25 | 0.50 | 4.0 | 7.0 | 3.// |
| STA 10+25 TO 11+00 LT OF CR 10 | 0.124 | 1.30 | 0,25 | 0.50 | 4.0 | 7.0 | 2,22 |
| STA 36+00 TO 44+00 LT OF SR 83 | 0.047 | 1.30 | 0,25 | 0.50 | 4.0 | 7.0 | 4. 39 |
| STA 44+00 TO 47+50 LT OF SR 83 | 0.054 | 1.30 | 0,25 | 0.50 | 4.0 | 7.0 | 3.94 |
| STA 1+00 TO 2+50 LT OF CR 226 | 0.003 | I . 15 | 0,25 | 0.50 | 4.0 | 7.0 | 41,29 |
| STA 24+00 TO 32+50 RT OF SR 83 | 0.068 | 1.50 | 0,25 | 0.50 | 4.0 | 7.0 | 4. 57 |
| STA 36+00 TO 47+50 RT OF SR 83 | 0.045 | <i>1.</i> 55 | 0.25 | 0.50 | 4.0 | 7.0 | 6 . 86 |

| GEORGIA |
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| DEPARTMENT |
| OF |
| TRANSPORTATION |

| REVISION DATES | STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION | | | | | | |
|----------------|---|-------|--|--|--|--|--|
| 02-10-11 | OFFICE: DISTRICT 2 TENNILLE | | | | | | |
| | ESPCP GENERAL NOTES SR 83/BOSTWICK HWY OVER LITTLE SANDY CREEK | | | | | | |
| | PROJECT BRSTO-2938-00 (004) COUNTY MORGAN | 51-02 | | | | | |